

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

- Type of action: ☐ Below grade tank registration
☐ Permit of a pit or proposed alternative method
☒ Closure of a pit, below-grade tank, or proposed alternative method
☐ Modification to an existing permit/or registration
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Four Corners Exploration c/o Dugan Production Corp. OGRID #: 008090
Address: 709 E. Murray Drive, Farmington, NM 87401
Facility or well name: South Bisti Federal 29 #1
API Number: 30-045-26730 OCD Permit Number: _____
U/L or Qtr/Qtr A Section 29 Township 25N Range 12W County: San Juan
Center of Proposed Design: Latitude 36.378756 Longitude -108.126986 NAD83
Surface Owner: ☒ Federal ☐ State ☐ Private ☒ Tribal Trust or Indian Allotment

2.
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 60 bbl Type of fluid: Produced Water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☒ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness 30 mil ☐ HDPE ☒ PVC ☐ Other _____

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☒ Alternate. Please specify Field Fence (See Design and Construction Plan)

6.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

☒ Screen ☐ Netting ☐ Other _____

☐ Monthly inspections (If netting or screening is not physically feasible)

7.

Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☒ Signed in compliance with 19.15.16.8 NMAC

8.

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting

Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.

- ☒ NM Office of the State Engineer - iWATERS database search; ☒ USGS; ☐ Data obtained from nearby wells

☐ Yes ☐ No
☐ NA

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No
☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (*Does not apply to below grade tanks*)

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine. (*Does not apply to below grade tanks*)

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area. (*Does not apply to below grade tanks*)

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain. (*Does not apply to below grade tanks*)

- FEMA map

☐ Yes ☐ No

Below Grade Tanks

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (*Applies to low chloride temporary pits.*)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300 feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Temporary Pit Non-low chloride drilling fluid

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Permanent Pit or Multi-Well Fluid Management Pit

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12. **Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13. **Proposed Closure:** 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit
☐ Alternative
- Proposed Closure Method: ☐ Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
☐ In-place Burial ☐ On-site Trench Burial
☐ Alternative Closure Method

14. **Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input type="checkbox"/> No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

16.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.

OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

19.

Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ Closure Completion Date: April 18, 2019

20.

Closure Method:

- ☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
- ☐ If different from approved plan, please explain.

21.

Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☒ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only)
- ☐ Plot Plan (for on-site closures and temporary pits)
- ☒ Confirmation Sampling Analytical Results (if applicable)
- ☐ Waste Material Sampling Analytical Results (required for on-site closure)
- ☒ Disposal Facility Name and Permit Number
- ☒ Soil Backfilling and Cover Installation
- ☒ Re-vegetation Application Rates and Seeding Technique
- ☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Kevin SmakaTitle: AgentSignature: Date: September 2, 2020e-mail address: kevin.smaka@duganproduction.comTelephone: 505-325-1821

Kevin Smaka

From: Kevin Smaka <Kevin.Smaka@duganproduction.com>
Sent: Monday, March 25, 2019 7:27 AM
To: Cory.Smith@state.nm.us; Vanessa.Fields@state.nm.us; Mike Sandoval
Subject: Sampling schedule

Hi Cory,

Dugan Production will sample this Wednesday for the Arviso and the South Bisti federal 29 #1. We will start at 10 @the south bisti and plan to do the Arviso at noon.

Kevin

Sent from my iPhone

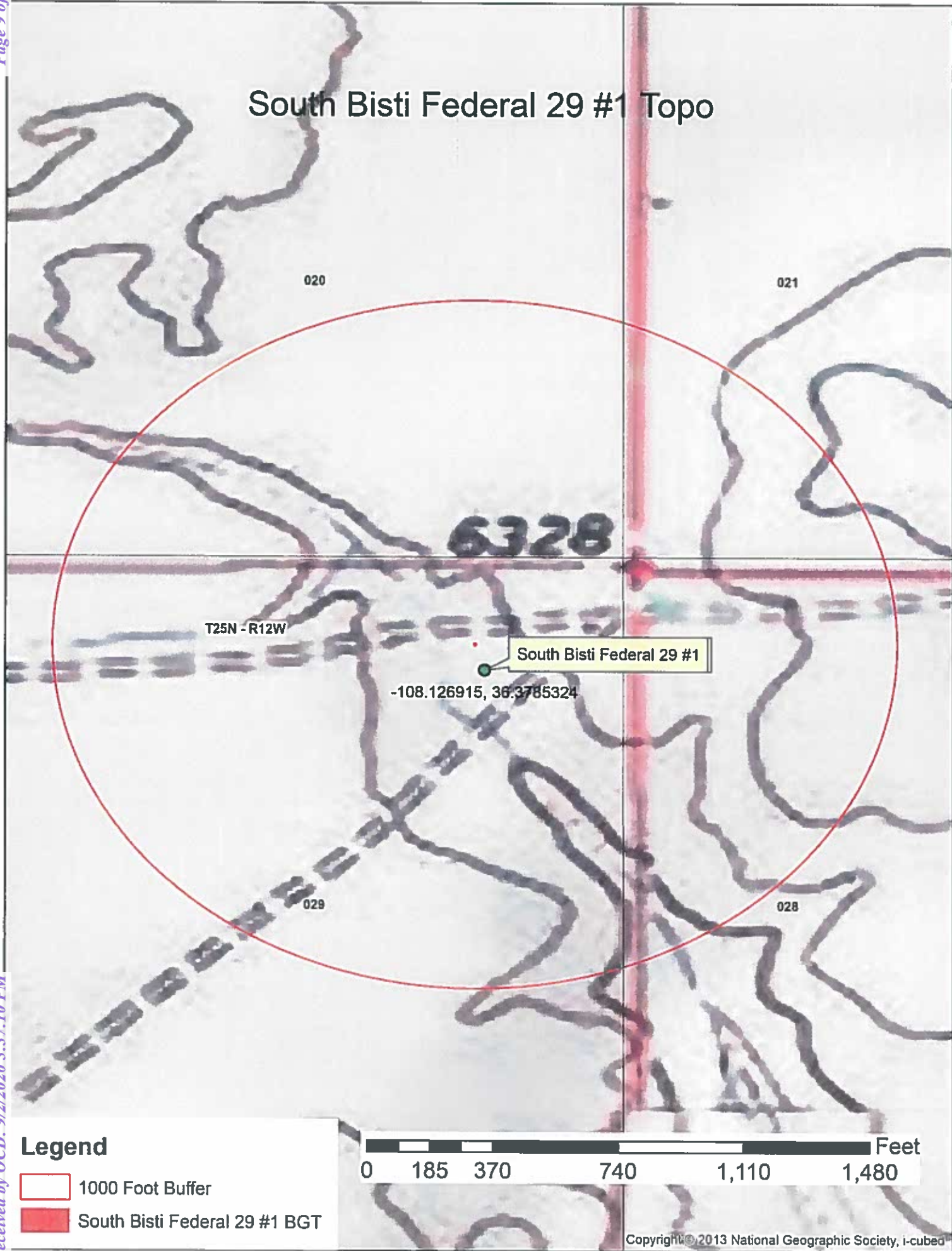
Kevin Smaka

From: Kevin Smaka
Sent: Monday, March 25, 2019 3:06 PM
To: Smith, Cory, EMNRD; Fields, Vanessa, EMNRD
Cc: Mike Sandoval; Curtis Davis; Creeden, Eric; Thomas, Leigh
Subject: Sampling Schedule

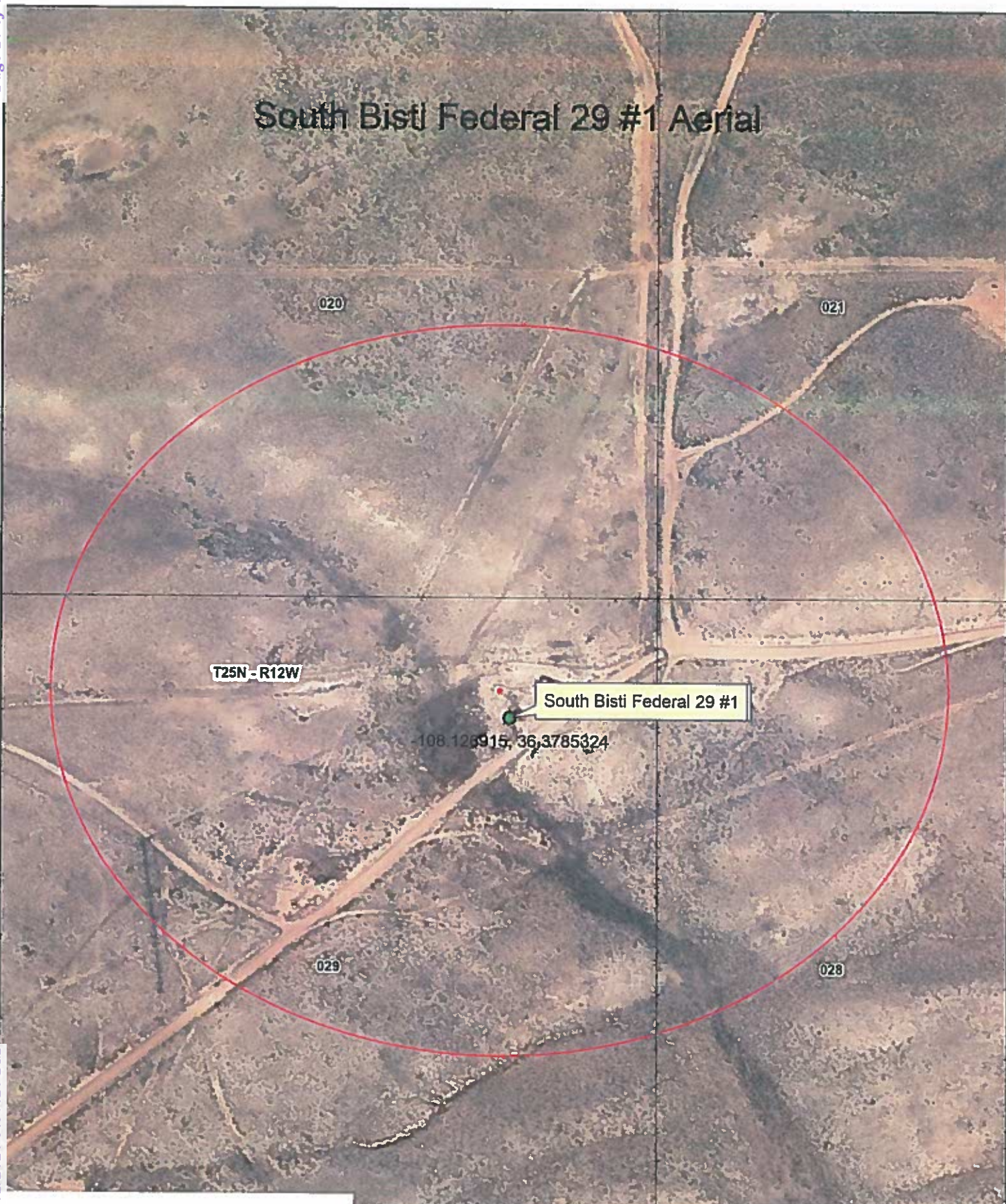
Everyone,

We planned on doing our sampling Wednesday but we have a scheduling conflict. We will sample Thursday at 10 at the south Bisti and move to the Arviso at 12.



Kevin Smaka
Regulatory Engineer
Dugan Production Corp.
505-486-6207

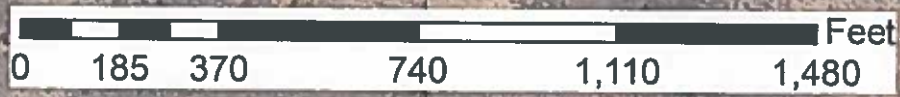


South Bisti Federal 29 #1 Aerial



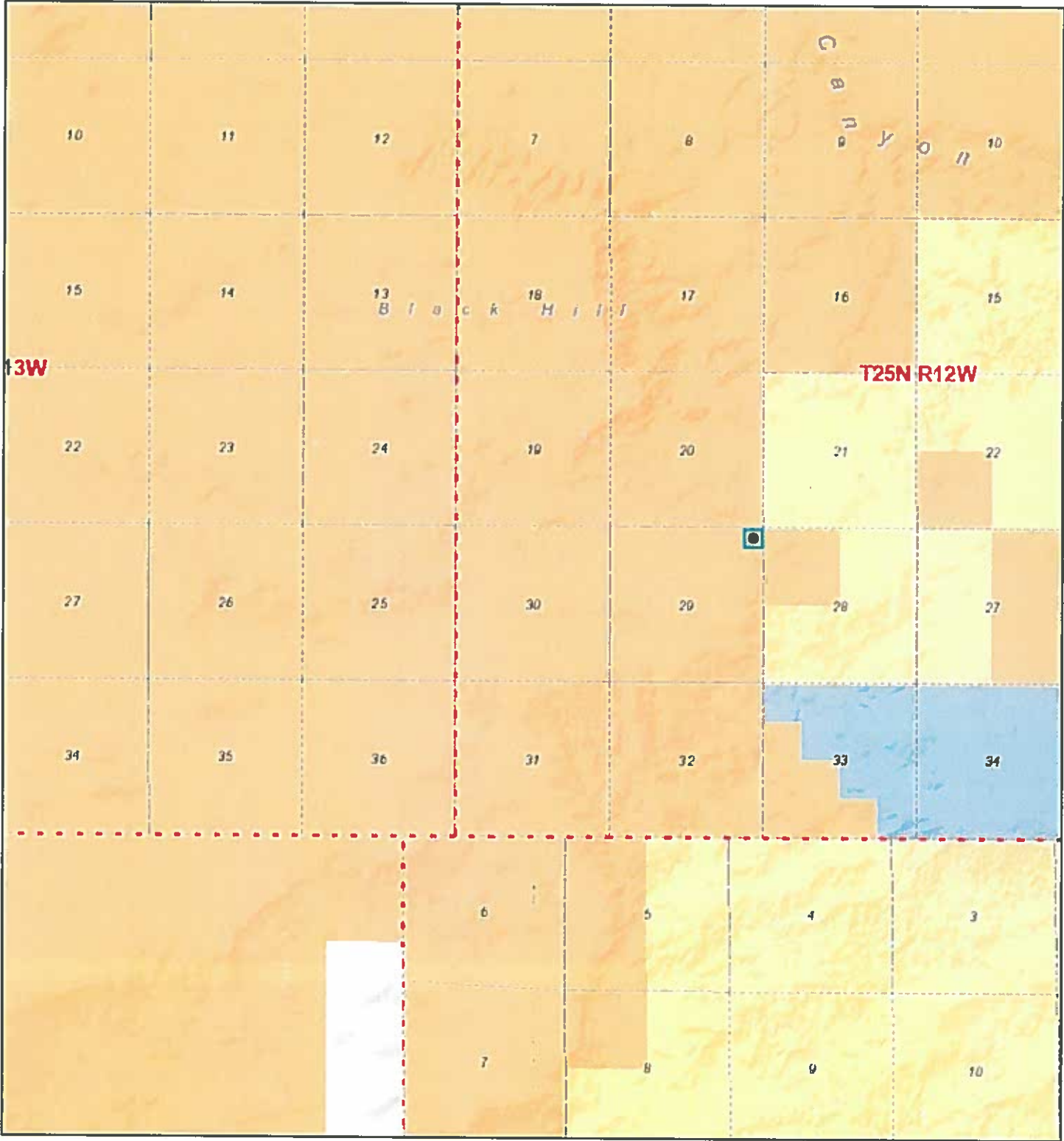
Legend

-  1000 Foot Buffer
-  South Bisti Federal 29 #1 BGT

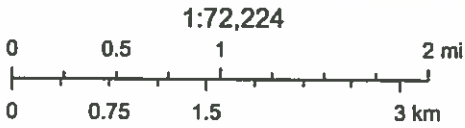


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Copyright © 2013 National Geographic Society, Inc.

Active Mines in New Mexico



8/11/2020, 4:17:45 PM



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

National Flood Hazard Layer FIRMette






108°7'56"W 36°22'58"N







Legend





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AQ, AH, VE, AF
	Regulatory Floodway



SPECIAL FLOOD HAZARD AREAS

	0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee. See Notes, Zone X
	Area with Flood Risk due to Levee Zone L










OTHER AREAS OF FLOOD HAZARD

	NO SCREEN
	Area of Minimal Flood Hazard Zone X
	Effective LOMRs
	Area of Undetermined Flood Hazard Zone




OTHER AREAS GENERAL STRUCTURES

	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall

OTHER FEATURES

	Cross Sections with 1% Annual Chance
	Water Surface Elevation
	Coastal Transect
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature

MAP PANELS

	Digital Data Available
	No Digital Data Available
	Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/11/2020 at 6:12 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 29

Township: 25N

Range: 12W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/11/20 4:20 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Four Corners Exploration	OGRID 008090
Contact Name Kevin Smaka, Agent	Contact Telephone 505-325-1821 x1049
Contact email kevin.smaka@duganproduction.com	Incident # (assigned by OCD) NVF1820036683
Contact mailing address c/o Dugan Production Corp. PO Box 420, Farmington, NM 87499-0420	

Location of Release Source

Latitude 36.378546 Longitude -108.126871
(NAD 83 in decimal degrees to 5 decimal places)

Site Name South Bisti Federal 29 #1	Site Type
Date Release Discovered	API# (if applicable) 30-045-26730

Unit Letter	Section	Township	Range	County
A	29	25N	12W	San Juan

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

NMOC

APR 05 2019

DISTRICT III

31

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kevin Smaka

Title: Regulatory Engineer

Signature: [Signature]

Date: 4-4-2019

email: kevin.smaka@duganproduction.com

Telephone: 505-325-1821

OCD Only

Received by: OCD

Date: 4/5/19

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: [Signature]

Date: 4/9/19

Printed Name: Cory

Title: Environmental Spec

South Bisti Federal 29 #1

BGT Closure Report

Dugan closed the BGT located at the South Bisti Federal 29 #1. A report detailing remedial activities associated with the closure of the BGT and its associated release is included with this BGT closure packet.

In addition to the steps taken to remediate the spill Dugan took the following actions.

1. The BGT vault was filled with similar soils found nearby on location.
2. An above grade tank was installed.
3. Seeding and other reclamation activities were considered but since the water storage tank area is still part of an active well site it would have been wasteful to proceed with remedial activities.
4. Dugan will take all necessary steps to ensure that the site is correctly reclaimed by seeding and ensuring adequate regrowth when the well is plugged and abandoned.

Please note Dugan is not the operator of record. Dugan provides contract pumping services to Four Corners Exploration and handles all correspondence and regulatory matters on their behalf.



South Bisti Federal 29 #1

30-045-26730

BGT Release Closure Report

The South Bisti Federal 29 #1 is owned and operated by Four Corners exploration. Dugan Production Corp. provides pumping services for the well. The well was inspected by the NM OCD and they noted the BGT was buried by fill and sand. On 7-18-2018 Dugan, OCD inspectors and a contract crew witnessed the excavation of the side walls and bottom. As the bottom was reached there was an unplanned release in the pit. The release was caused by corrosion inside the BGT. A C-141 was filed and Dugan began coordinating with the well owner to determine the best course of action. The owner elected to remediate the spill via excavation and removal.

Weather delays and scheduling issues delayed the completion of remedial activities at the spill site. Beginning on March 18th, 2019 remediation and delineation activities began. First, test holes were dug 15 feet from the pit vault side walls in three of the 4 cardinal directions. The holes were dug to a depth of 15 feet and no contamination was detected. The east wall was left alone because a separator was resting above that wall and the operator desired the equipment be left in place if possible. Samples taken from that wall did not contain signs of contamination so we elected to not remove the equipment since that wall appeared to be clean.

The initial hole's size was roughly 20'x20'x10'. After removing all contaminated soils the hole grew to be 26'x31'x20'. Once Dugan was satisfied with the work that had been done the NMOCD and BLM were notified that samples would be taken, on March 28th, in the event the agency would like to witness the sampling. The samples came back within the allowable limits of the "spill rule" and the hole was back filled.

Included with this closure report are the following attachments.

1. A scaled site map
2. Sampling results
3. Sampling Diagram
4. Photographs of the BGT pit prior to back filling

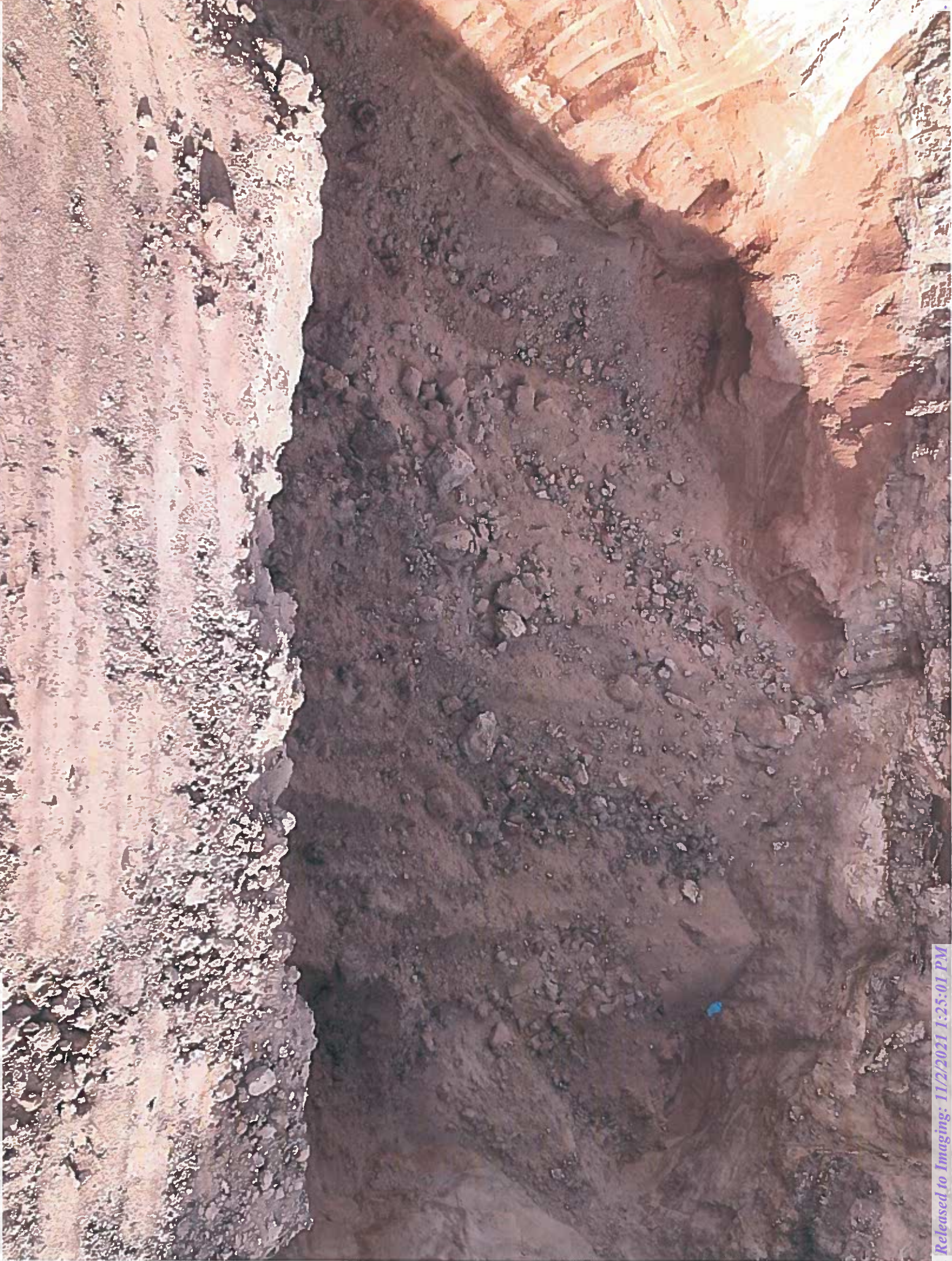




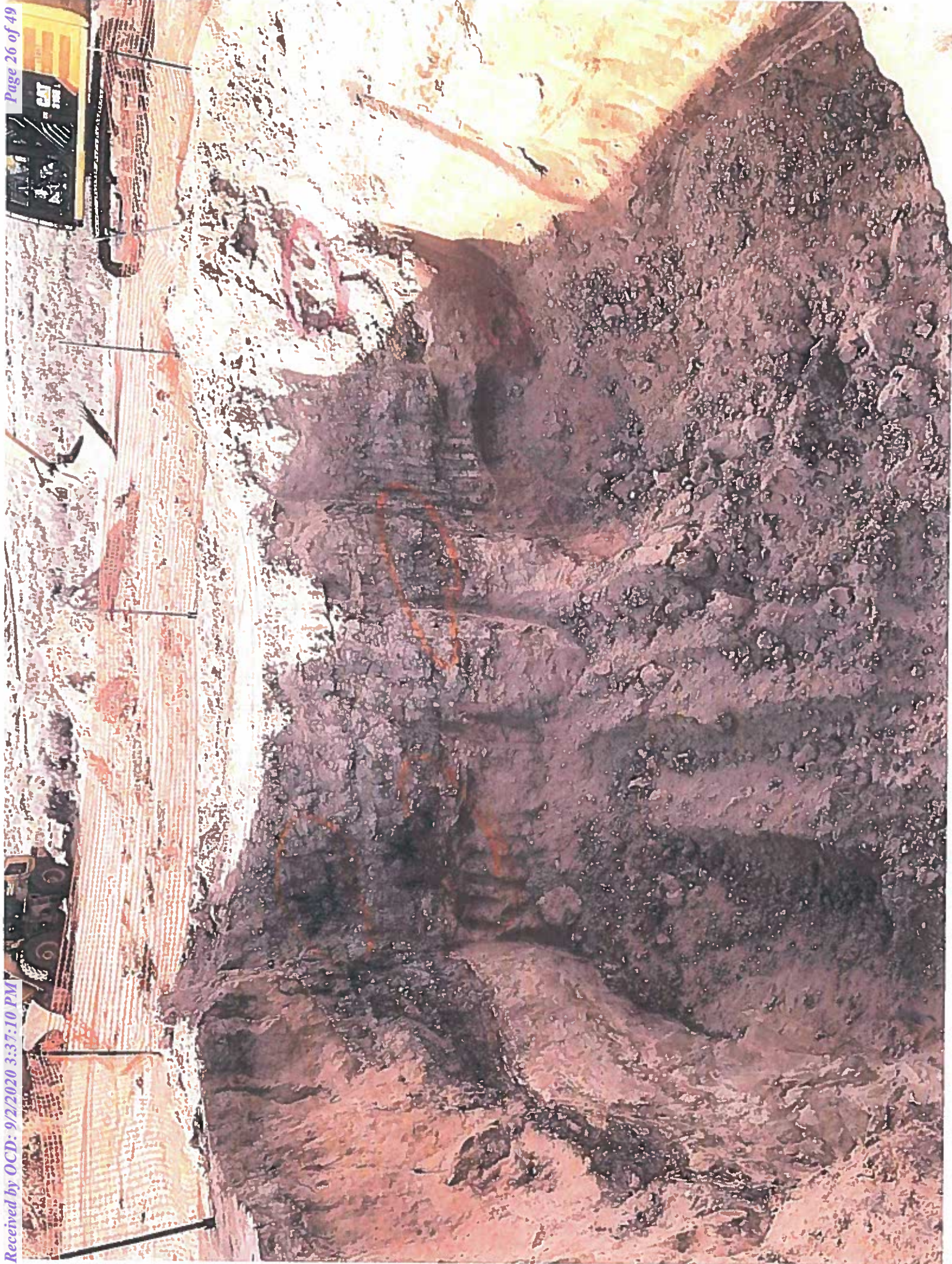












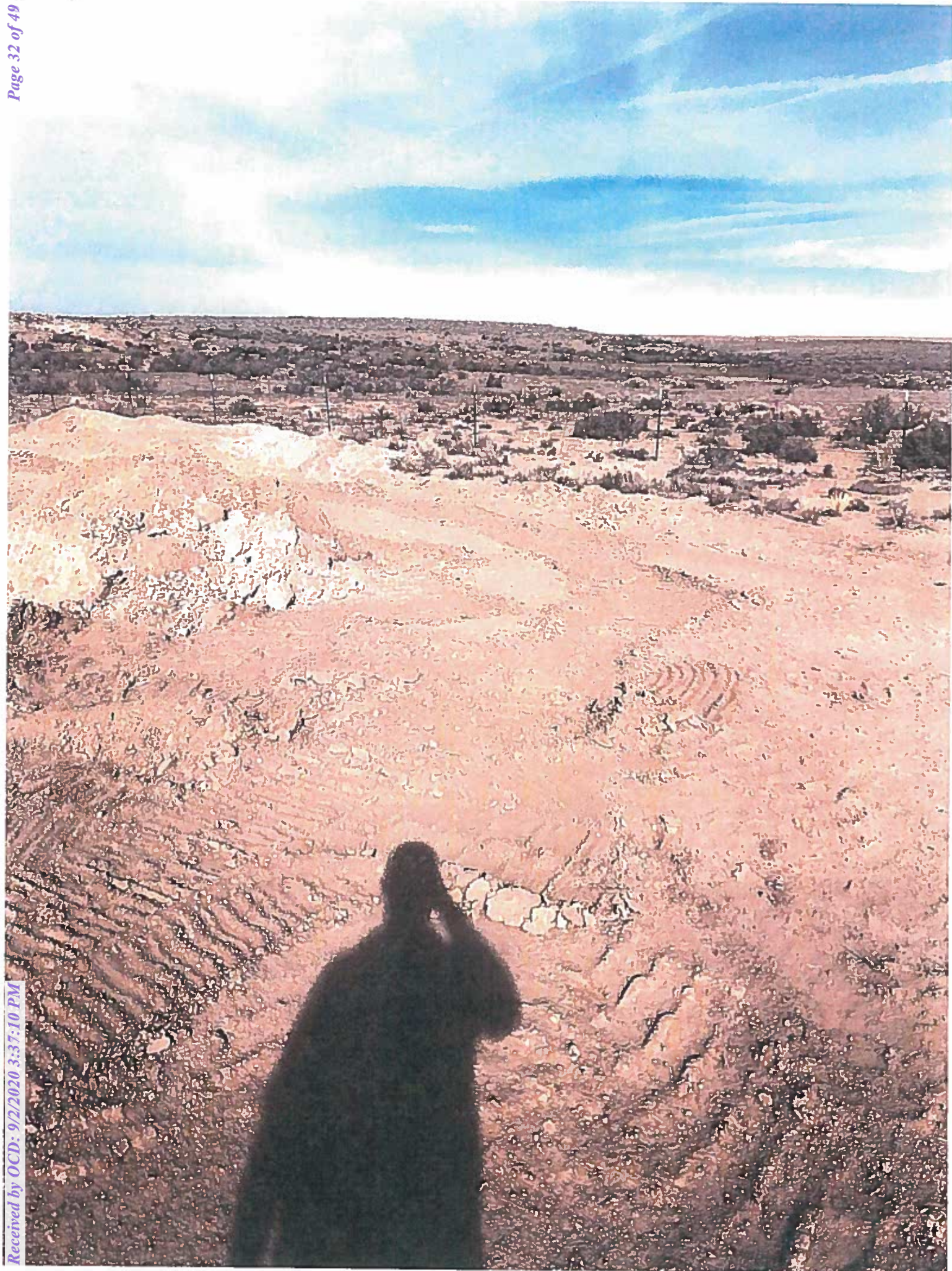


















Analytical Report

Report Summary

Client: Four Corners Exploration/Dugan Production

Samples Received: 3/28/2019

Job Number: 06094-0177

Work Order: P903075

Project Name/Location: South Bisti Fed 29 #1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', written over a horizontal line.

Date: 4/2/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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Page 1 of 14

Four Corners Exploration/Dugan Production
 4100 W Piedras St
 Farmington NM, 87499

Project Name: South Bisti Fed 29 #1
 Project Number: 06094-0177
 Project Manager: Mike Sandoval

Reported:
 04/02/19 17:25

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Bisti Fed 29 #1 #1	P903075-01A	Soil	03/28/19	03/28/19	Glass Jar, 4 oz.
South Bisti Fed 29 #1 #2	P903075-02A	Soil	03/28/19	03/28/19	Glass Jar, 4 oz.
South Bisti Fed 29 #1 #3	P903075-03A	Soil	03/28/19	03/28/19	Glass Jar, 4 oz.
South Bisti Fed 29 #1 #4	P903075-04A	Soil	03/28/19	03/28/19	Glass Jar, 4 oz.
South Bisti Fed 29 #1 #B	P903075-05A	Soil	03/28/19	03/28/19	Glass Jar, 4 oz.

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Four Corners Exploration/Dugan Production 4100 W Piedras St Farmington NM, 87499	Project Name Project Number: Project Manager:	South Bisti Fed 29 #1 06094-0177 Mike Sandoval	Reported: 04/02/19 17:25
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**South Bisti Fed 29 #1 #1
P903075-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.8 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate: n-Nonane		146 %		50-200	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.8 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	48.1	20.0	mg/kg	1	1914002	04/01/19	04/01/19	EPA 300.0/9056A	
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Four Corners Exploration/Dugan Production
4100 W Piedras St
Farmington NM, 87499

Project Name: South Bisti Fed 29 #1
Project Number: 06094-0177
Project Manager: Mike Sandoval

Reported:
04/02/19 17:25

South Bisti Fed 29 #1 #2

P903075-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.4 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: Toluene-d8		99.2 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.1 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8015D	
Diesel Range Organics (C10-C28)	49.2	25.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate: n-Nonane		109 %		50-200	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		95.4 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate: Toluene-d8		99.2 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.1 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	214	20.0	mg/kg	1	1914002	04/01/19	04/01/19	EPA 300.0/9056A	

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Four Corners Exploration/Dugan Production
4100 W Piedras St
Farmington NM, 87499

Project Name: South Bisti Fed 29 #1
Project Number: 06094-0177
Project Manager: Mike Sandoval

Reported:
04/02/19 17:25

**South Bisti Fed 29 #1 #3
P903075-03 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: 1,2-Dichloromethane-d4		97.6 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: Toluene-d8		99.6 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.6 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8015D	
Diesel Range Organics (C10-C28)	98.8	25.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate: 1,2-Dichloromethane-d4		97.6 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate: Toluene-d8		99.6 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.6 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	318	20.0	mg/kg	1	1914002	04/01/19	04/01/19	EPA 300.0/9056A	

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Four Corners Exploration/Dugan Production 4100 W Piedras St Farmington NM, 87499	Project Name: South Bisti Fed 29 #1 Project Number: 06094-0177 Project Manager: Mike Sandoval	Reported: 04/02/19 17:25
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**South Bisti Fed 29 #1 #4
P903075-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate 1,2-Dichloroethane-d4		96.4 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate Toluene-d8		99.8 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate Bromofluorobenzene		97.0 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate n-Nonane		103 %		50-200	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate 1,2-Dichloroethane-d4		96.4 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate Toluene-d8		99.8 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate Bromofluorobenzene		97.0 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	377	20.0	mg/kg	1	1914002	04/01/19	04/01/19	EPA 300.0/9056A	
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Four Corners Exploration/Dugan Production 4100 W Piedras St Farmington NM, 87499	Project Name Project Number: Project Manager:	South Bisti Fed 29 #1 06094-0177 Mike Sandoval	Reported: 04/02/19 17:25
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South Bisti Fed 29 #1 #B
P903075-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		93.9 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: Toluene-d8		99.9 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	
Surrogate: Bromofluorobenzene		100 %		70-130	1914003	04/01/19	04/02/19	EPA 8260B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1914003	04/01/19	04/02/19	EPA 8015D	
Diesel Range Organics (C10-C28)	99.6	25.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate: n-Nonane		99.9 %		50-200	1913043	04/01/19	04/01/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		93.9 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate: Toluene-d8		99.9 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	
Surrogate: Bromofluorobenzene		100 %		70-130	1914003	04/01/19	04/02/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	314	20.0	mg/kg	1	1914002	04/01/19	04/01/19	EPA 300.0/9056A	
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Four Corners Exploration/Dugan Production
4100 W Piedras St
Farmington NM, 87499

Project Name South Bisti Fed 29 #1
Project Number 06094-0177
Project Manager Mike Sandoval

Reported:
04/02/19 17:25

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1914003 - Purge and Trap EPA 5030A

Blank (1914003-BL.K1)

Prepared 04/01/19 | Analyzed 04/02/19 |

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.498		"	0.500		99.6	70-130			
Surrogate: Toluene-d8	0.505		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.3	70-130			

ICS (1914003-BS1)

Prepared 04/01/19 | Analyzed 04/02/19 |

Benzene	2.49	0.0250	mg/kg	2.50		99.7	70-130			
Toluene	2.46	0.0250	"	2.50		98.2	70-130			
Ethylbenzene	2.41	0.0250	"	2.50		96.4	70-130			
p,m-Xylene	4.71	0.0500	"	5.00		94.1	70-130			
o-Xylene	2.34	0.0250	"	2.50		93.6	70-130			
Total Xylenes	7.05	0.0250	"	7.50		94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		"	0.500		99.6	70-130			
Surrogate: Toluene-d8	0.509		"	0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.483		"	0.500		96.6	70-130			

Matrix Spike (1914003-MS1)

Source: P903075-01

Prepared 04/01/19 | Analyzed 04/02/19 |

Benzene	2.54	0.0250	mg/kg	2.50	ND	101	48-131			
Toluene	2.48	0.0250	"	2.50	ND	99.1	48-130			
Ethylbenzene	2.45	0.0250	"	2.50	ND	98.0	45-135			
p,m-Xylene	4.78	0.0500	"	5.00	ND	95.7	43-135			
o-Xylene	2.38	0.0250	"	2.50	ND	95.4	43-135			
Total Xylenes	7.17	0.0250	"	7.50	ND	95.6	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.503		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.501		"	0.500		100	70-130			
Surrogate: Bromofluorobenzene	0.495		"	0.500		98.9	70-130			

Matrix Spike Dup (1914003-MSD1)

Source: P903075-01

Prepared 04/01/19 | Analyzed 04/02/19 |

Benzene	2.54	0.0250	mg/kg	2.50	ND	101	48-131	0.0394	23	
Toluene	2.47	0.0250	"	2.50	ND	98.8	48-130	0.283	24	
Ethylbenzene	2.44	0.0250	"	2.50	ND	97.7	45-135	0.327	27	
p,m-Xylene	4.77	0.0500	"	5.00	ND	95.4	43-135	0.314	27	
o-Xylene	2.38	0.0250	"	2.50	ND	95.3	43-135	0.0629	27	
Total Xylenes	7.15	0.0250	"	7.50	ND	95.3	43-135	0.230	27	
Surrogate: 1,2-Dichloroethane-d4	0.511		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.502		"	0.500		100	70-130			

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Received by OCD: 9/2/2020 3:37:10 PM

Released to Imaging: 11/2/2021 1:25:01 PM



Four Corners Exploration/Dugan Production	Project Name	South Bisti Fed 29 #1	Reported:
4100 W Piedras St	Project Number	06094-0177	04/02/19 17:25
Farmington NM, 87499	Project Manager	Mike Sandoval	

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1914003 - Purge and Trap EPA 5030A

Matrix Spike Dup (1914003-MSD1)

Source: P903075-01

Prepared 04/01/19 | Analyzed 04/02/19 |

Surrogate: Bromofluorobenzene	0.500	mg/kg	0.500	99.9	70-130
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Four Corners Exploration/Dugan Production	Project Name	South Bisti Fed 29 #1	Reported:
4100 W Piedras St	Project Number:	06094-0177	04/02/19 17:25
Farmington NM, 87499	Project Manager:	Mike Sandoval	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1913043 - DRO Extraction EPA 3570

Blank (1913043-B1.K1)				Prepared & Analyzed 04/01/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	58.7		"	50.0		117	50-200			
LCS (1913043-BS1)				Prepared & Analyzed 04/01/19 1						
Diesel Range Organics (C10-C28)	468	25.0	mg/kg	500		93.6	38-132			
Surrogate: n-Nonane	48.4		"	50.0		96.9	50-200			
Matrix Spike (1913043-MS1)				Source: P903075-05		Prepared & Analyzed 04/01/19 1				
Diesel Range Organics (C10-C28)	553	25.0	mg/kg	500	99.6	90.7	38-132			
Surrogate: n-Nonane	45.3		"	50.0		90.6	50-200			
Matrix Spike Dup (1913043-MSD1)				Source: P903075-05		Prepared & Analyzed 04/01/19 1				
Diesel Range Organics (C10-C28)	569	25.0	mg/kg	500	99.6	93.8	38-132	2.83	20	
Surrogate: n-Nonane	48.1		"	50.0		96.2	50-200			

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Four Corners Exploration/Dugan Production 4100 W Piedras St Farmington NM, 87499	Project Name: South Bisti Fed 29 #1 Project Number: 06094-0177 Project Manager: Mike Sandoval	Reported: 04/02/19 17:25
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1914003 - Purge and Trap EPA 5030A

Blank (1914003-BLK1)

Prepared: 04/01/19 | Analyzed: 04/02/19 |

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.498		"	0.500		99.6	70-130			
Surrogate: Toluene-d8	0.505		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.3	70-130			

LCS (1914003-BS2)

Prepared: 04/01/19 | Analyzed: 04/02/19 |

Gasoline Range Organics (C6-C10)	48.3	20.0	mg/kg	50.0		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		"	0.500		99.7	70-130			
Surrogate: Toluene-d8	0.502		"	0.500		100	70-130			
Surrogate: Bromofluorobenzene	0.483		"	0.500		96.6	70-130			

Matrix Spike (1914003-MS2)

Source: P903075-01

Prepared: 04/01/19 | Analyzed: 04/02/19 |

Gasoline Range Organics (C6-C10)	46.2	20.0	mg/kg	50.0	ND	92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.497		"	0.500		99.4	70-130			
Surrogate: Bromofluorobenzene	0.496		"	0.500		99.1	70-130			

Matrix Spike Dup (1914003-MSD2)

Source: P903075-01

Prepared: 04/01/19 | Analyzed: 04/02/19 |

Gasoline Range Organics (C6-C10)	50.7	20.0	mg/kg	50.0	ND	101	70-130	9.25	20	
Surrogate: 1,2-Dichloroethane-d4	0.495		"	0.500		98.9	70-130			
Surrogate: Toluene-d8	0.505		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.493		"	0.500		98.5	70-130			

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Four Corners Exploration/Dugan Production	Project Name	South Bisti Fed 29 #1	
4100 W Piedras St	Project Number	06094-0177	
Farmington NM, 87499	Project Manager	Mike Sandoval	Reported: 04/02/19 17:25

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1914002 - Anion Extraction EPA 300.0/9056A										
Blank (1914002-BLK1)										
					Prepared 04/01/19 0 Analyzed 04/01/19 1					
Chloride	ND	20.0	mg/kg							
LCS (1914002-BS1)										
					Prepared 04/01/19 0 Analyzed 04/01/19 1					
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1914002-MS1)										
					Source: P903075-01 Prepared 04/01/19 0 Analyzed 04/01/19 1					
Chloride	295	20.0	mg/kg	250	48.1	98.6	80-120			
Matrix Spike Dup (1914002-MSD1)										
					Source: P903075-01 Prepared 04/01/19 0 Analyzed 04/01/19 1					
Chloride	295	20.0	mg/kg	250	48.1	98.7	80-120	0.0543	20	

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Four Corners Exploration/Dugan Production 4100 W Piedras St Farmington NM, 87499	Project Name: South Bisti Fed 29 #1 Project Number: 06094-0177 Project Manager: Mike Sandoval	Reported: 04/02/19 17:25
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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

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Chain of Custody

Client: Envirotech Extraction Report Attention: Production

Project: South Bisti Fed 29#1

Project Manager: Michael Sandovl

Address: _____

City, State, Zip: _____

Phone: 238-0929

Email: Michael.Sandovl@Envirotech.com

Lab Use Only

Lab WO# P903075 Job Number 06094-0177

Analysis and Method

DRO/ORD by 8015 GAO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 TPH 418.1

State

NM CO UT AZ

Remarks

Additional Instructions:

Relinquished by: (Signature) Michael Sandovl Date 3-28-19 Time 4:40

Relinquished by: (Signature) Ram Lopez Date 3-28-19 Time 4:40

Received by: (Signature) Ram Lopez Date 3-28-19 Time 4:40

Received by: (Signature) Ram Lopez Date 3-28-19 Time 4:40

Sample Matrix: S - Soil, Sd - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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envirotech
Analytical Laboratory

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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 9990

CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID:
	6515
	Action Number:
	9990
Action Type:	
[C-144] PIT Generic Plan (C-144)	

CONDITIONS

Created By	Condition	Condition Date
vvenegas	None	11/2/2021